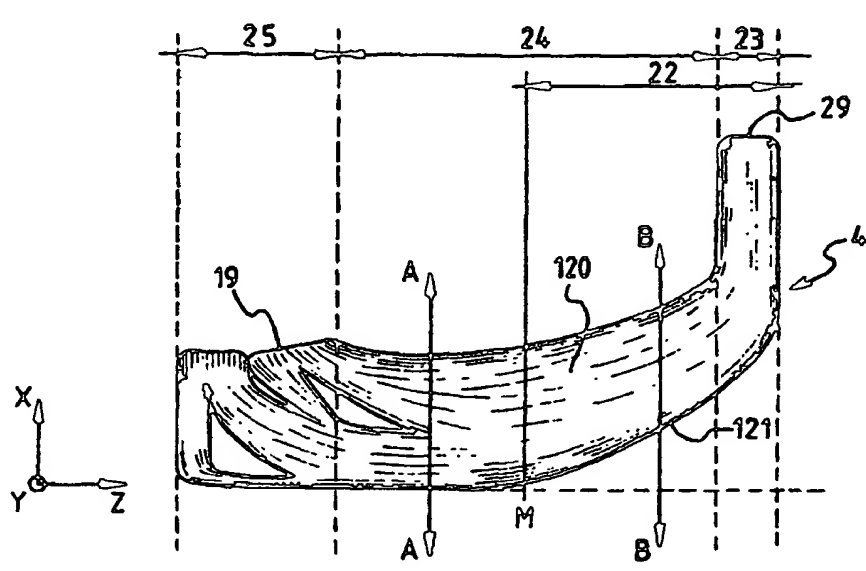


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : H01J 29/76	A1	(11) International Publication Number: WO 00/57448 (43) International Publication Date: 28 September 2000 (28.09.00)
(21) International Application Number: PCT/EP00/02598 (22) International Filing Date: 23 March 2000 (23.03.00) (30) Priority Data: 99/03655 24 March 1999 (24.03.99) FR (71) Applicant (for all designated States except US): THOMSON TUBES & DISPLAYS S.A. [FR/FR]; 46, quai Alphonse Le Gallo, F-92100 Boulogne-Billancourt (FR). (72) Inventors; and (75) Inventors/Applicants (for US only): AZZI, Nacerdine [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). MASSON, Olivier [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). VOLATIER, Sébastien [FR/FR]; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR). (74) Agent: MOJAL, Gérard; Thomson Multimedia, 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>
(54) Title: DEFLECTION UNIT FOR SELF-CONVERGING CATHODE-RAY TUBES WITH REDUCED TRAPEZOID DIFFERENTIAL 		
(57) Abstract <p>Electromagnetic deflection unit for colour cathode-ray tubes, comprising a pair of frame deflection coils and a pair of line deflection coils, at least one of these two pairs of coils having the shape of a saddle, each saddle-shaped deflection coil (3) having a rear bundle (19) placed on the side facing the electron gun and a front bundle (29) on the side facing the screen, two lateral harnesses of conductors connecting the front bundle to the rear bundle, each lateral harness being characterized in that the external edge of the said lateral harness lies in a radial angular position close to 0° at the rear of the coil and in a radial angular position greater than 5° at the front of the coil, so as to minimize the trapezoid differential error between the red and blue beams.</p>		

FOR THE PURPOSES OF INFORMATION ONLY

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EE	Estonia		Liberia	SG	Singapore		

PATENT COOPERATION TREATY
PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PF990009	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 00/ 02598	International filing date (day/month/year) 23/03/2000	(Earliest) Priority Date (day/month/year) 24/03/1999
Applicant THOMSON TUBES & DISPLAYS S.A.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☒ because this figure better characterizes the invention.
- 3A** ☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

EP 00/02598

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01J29/76

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 044 585 A (PHILIPS NV) 27 January 1982 (1982-01-27) claims 1-17 ---	1
A	FR 2 757 681 A (THOMSON TUBES & DISPLAYS) 26 June 1998 (1998-06-26) claims 1-6 ---	1
A	EP 0 613 168 A (THOMSON TUBES & DISPLAYS) 31 August 1994 (1994-08-31) -----	

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

14 June 2000

Date of mailing of the international search report

21/06/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Van den Bulcke, E

INTERNATIONAL SEARCH REPORT

International Application No

EP 00/02598

Information on patent family members

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
• EP 0044585	A	27-01-1982	NL 8004114 A DE 3163378 D JP 57050751 A US 4431940 A	16-02-1982 07-06-1984 25-03-1982 14-02-1984
FR 2757681	A	26-06-1998	AU 6092298 A CN 1245585 A WO 9828772 A EP 0946963 A	17-07-1998 23-02-2000 02-07-1998 06-10-1999
EP 0613168	A	31-08-1994	SG 46310 A CN 1092553 A DE 69311298 D DE 69311298 T HK 1004581 A JP 6283115 A US 5455483 A	20-02-1998 21-09-1994 10-07-1997 09-10-1997 27-11-1998 07-10-1994 03-10-1995

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

ZHANG, Jianguo
Thomson Multimedia
46, quai Alphonse Le Gallo
F-92648 Boulogne Cedex
FRANCE

Date of mailing (day/month/year) 28 September 2001 (28.09.01)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference PF990009	
International application No. PCT/EP00/02598	International filing date (day/month/year) 23 March 2000 (23.03.00)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input type="checkbox"/> the inventor	<input type="checkbox"/> the agent <input type="checkbox"/> the common representative
Name and Address THOMSON TUBES & DISPLAYS S.A. 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt France	State of Nationality FR	State of Residence FR
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input checked="" type="checkbox"/> the person	<input type="checkbox"/> the name	<input type="checkbox"/> the address <input type="checkbox"/> the nationality <input type="checkbox"/> the residence
Name and Address THOMSON LICENSING S.A. 46, quai Alphonse Le Gallo F-92100 Boulogne-Billancourt France	State of Nationality FR	State of Residence FR
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input checked="" type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Idhir BRITEL
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Date of mailing (day/month/year) 15 November 2000 (15.11.00)	Applicant's or agent's file reference PF990009
International application No. PCT/EP00/02598	
International filing date (day/month/year) 23 March 2000 (23.03.00)	Priority date (day/month/year) 24 March 1999 (24.03.99)
Applicant AZZI, Nacerdine et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
11 October 2000 (11.10.00)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Olivia TEFY Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF990009	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP00/02598	International filing date (day/month/year) 23/03/2000	Priority date (day/month/year) 24/03/1999	
International Patent Classification (IPC) or national classification and IPC H01J29/76			
Applicant THOMSON TUBES & DISPLAYS S.A.			


1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

 These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 11/10/2000 <i>V JH</i>	Date of completion of this report 14.05.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2339 - 0 Tx: 523656 eprtu d Fax: +49 89 2339 - 4465	Authorized officer Chevrier, D Telephone No. +49 89 2399 2819



PATENT COOPERATION TREATY

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REC'D 16 MAY 2001

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PF990009	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP00/02598	International filing date (day/month/year) 23/03/2000	Priority date (day/month/year) 24/03/1999
International Patent Classification (IPC) or national classification and IPC H01J29/76		

Applicant

THOMSON TUBES & DISPLAYS S.A. THOMSON LICENSING S.A.

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 4 sheets, including this cover sheet.

- ☒ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 2 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 11/10/2000	Date of completion of this report 14.05.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Chevrier, D Telephone No. +49 89 2399 2819 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/EP00/02598

I. Basis of the report

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)*):

Description, pages:

1-10 as originally filed

Claims, No.:

1-6 as received on 06/04/2001 with letter of 05/04/2001

Drawings, sheets:

1/5-5/5 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
☐ the language of publication of the international application (under Rule 48.3(b)).
☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority in written form.
☐ furnished subsequently to this Authority in computer readable form.
☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/02598

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 1-6
	No: Claims
Inventive step (IS)	Yes: Claims 1-6
	No: Claims
Industrial applicability (IA)	Yes: Claims 1-6
	No: Claims

2. Citations and explanations
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/02598

Certain observations on the international application (clarity) (Item VIII)

- 1 According to Rule 10.2 PCT, the terminology shall be consistent throughout the application, so that "frame" or "line" deflection coils should be replaced by "horizontal" or "vertical" deflection coils (compare claim 1 with the description, page 3, line 31 to page 4, line 5).
- 2 Claim 5 should depend on claim 3 and not 5.
- 3 The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT.

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement (Item V)

Technical field

The invention relates to an electromagnetic deflection unit for colour cathode ray tubes, such as the one disclosed in FR-A-2 757 678 (cited in the description, page 3).

Problem

The object of the invention is to reduce the trapezoid differential error on the screen; see explanations on page 2, lines 24-38, page 3, lines 21-24, and page 6 lines 19-21.

Solution

According to the characterising part of claim 1, the solution is given by a radial angular position of the external edge of the lateral harness of the saddle shaped vertical deflection coil greater than 5 degree with respect to the separation plane of the vertical deflection coils; see the explanations on page 3 lines 25-30 and page 7, lines 15-20.

Assessment

The non-obvious features of the characterising part being neither known from nor suggested by the available prior art (3 "A" documents in the international search report), the invention as defined in claims 1 (deflection unit) and 6 (cathode ray tube including such a deflection unit) meets the criteria set forth in Article 33(1) PCT. The dependent claims 2-5 define embodiments of the invention and as such also meet the criteria set forth in Article 33(1) PCT.

CLAIMS

1. Electromagnetic deflection unit for colour cathode-ray tubes, comprising a pair of frame deflection coils and a pair of line deflection coils, at least one of the two pairs having the shape of a saddle, each saddle-shaped deflection coil (3) extending along a longitudinal axis Z and having a rear bundle (19) on the side facing the electron gun and a front bundle (29) on the side facing the screen, having a window (18) in an intermediate region lying between these said bundles, two lateral harnesses of conductors (120) connecting the front bundle to the rear bundle, each lateral harness comprising a plurality of groups of conductors, characterized in that, at least in a region 22 lying in front of the saddle shaped vertical deflection coil starting from a point lying in the intermediate region, the external edge (121) of the lateral harness of the vertical deflection coils lies in a radial angular position greater than 5° , the radial angular position being measured with respect to the separation plane of the vertical deflection coils.
2. Deflection unit according to Claim 1, characterized in that the 7th-order harmonic of the potential created by the vertical deflection coils is positive at the front of the said coils.
3. Deflection unit according to one of the preceding claims, characterized in that along the Z axis the external edge of the lateral harness remains in a radial angular position close to 0° as far as a point lying within the intermediate region.
4. Deflection unit according to the preceding claim, characterized in that the region in which the external edge of the lateral harness remains in a radial angular position close to 0° is equal to or greater than two thirds of the length along Z of the deflection coil.

- 12 -

5. Deflection unit according to either of the preceding Claims 4 and 5, characterized in that the external edge of the lateral harness in the front part of the coil remains in an approximately constant radial angular position.
- 5 6. Cathode-ray tube which includes a deflection unit according to any one of the preceding claims.

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

MOJAL, Gérard
THOMSON MULTIMEDIA
46 Quai Alphonse Le Gallo
F-92648 Boulogne Cedex
FRANCE

THOMSON multimedia
RECEIVED

16 MAI 2001

24 SEP 2001
Département
Administratif - Paris

PCT

IS & S

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Date of mailing
(day/month/year)

14.05.2001

Applicant's or agent's file reference
PF990009

IMPORTANT NOTIFICATION

International application No.
PCT/EP00/02598

International filing date (day/month/year)
23/03/2000

Priority date (day/month/year)
24/03/1999

Applicant

THOMSON TUBES & DISPLAYS S.A.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.

2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.

3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/



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Fax: +49 89 2399 - 4465

Authorized officer

Schuster-Kaechel, W

Tel. +49 89 2399-2281

